

NAVAIR TSPSM Experiences Using the Excel Workbook and Team Dashboard

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Presentation Objectives

- Background
 - NAVAIR
 - Personal Software Process (PSP) and
 Team Software Process (TSP)¹
 - TSP Workbook and Process Dashboard tools
- Strengths and Weaknesses of Tools
 - Planning Phase (TSP Launches)
 - Plan Execution Phase (Daily Use)
 - Analysis of Plan Execution (Postmortems)





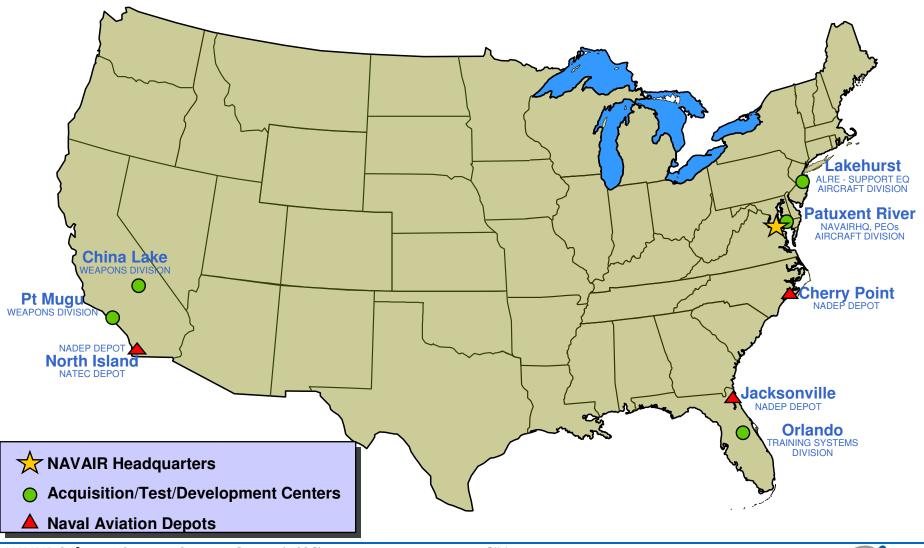
Who is NAVAIR?

- NAVAIR is the Naval Air Systems Command.
- We develop, acquire, and support the aircraft and related weapons systems used by the U. S. Navy and Marine Corps.
- We translate the needs of the Navy and Marine Corps into the technical and financial requirements needed by industry to actually produce an aircraft or other weapon system.
- Our goal is to provide the fleet with quality products that are both affordable and available when they are most needed.
- Our support extends across the entire life span of a product, including all upgrades and modifications to that product.





Who is NAVAIR?







What is PSP/TSP?

- PSP shows software professionals how to
 - plan and track their personal work
 - define processes that best suit them
 - measure and manage cost, schedule, and quality
- TSP shows teams of PSP-trained professionals how to
 - establish realistic commitments
 - keep management informed
 - deliver quality products
 - minimize project cost and schedule





PSP/TSP Benefits

- PSP/TSP quickly improves the performance of software groups.
- Planning and tracking is accurate, timely, and precise.
- Product quality is managed and measured from the beginning of the job.
- By finding and fixing problems before test, project cycle time is substantially reduced.



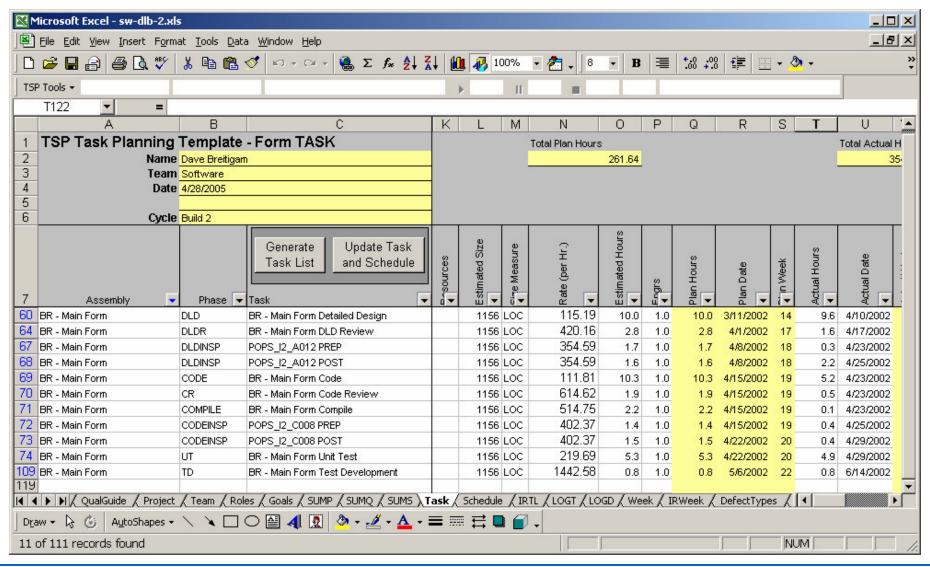


- Created by Software Engineering Institute
 (SEI) at Carnegie Mellon University
 - Automates implementation of TSP/PSP concepts
 - Enables software engineers to focus on work
 - Uses Microsoft Excel and Visual Basic macros





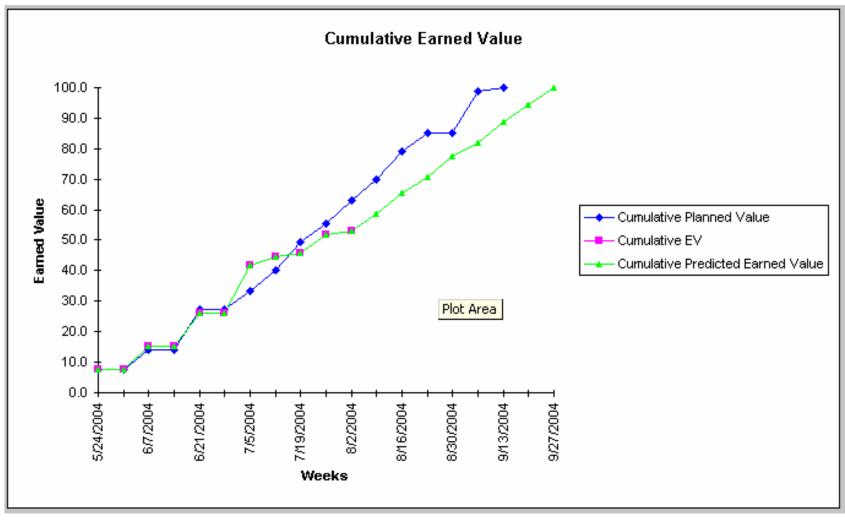
TSP Workbook — S/W Task List







TSP Workbook – EV Chart







What is Team Dashboard?

- Created by the Air Force Software Technology Support Center (STSC)
 - Automates implementation of TSP/PSP concepts
 - Enables software engineers to focus on work
 - Uses Java scripts
 - Filled need for a PSP/TSP tool for use on Unixbased computers (tool also works on Windowsbased computers)





Team Dashboard — s/w Task List



| 💮 Task and Schedule Rollup | | | | | | | | |
|---------------------------------------|-------|-------|------|--------------|--------------|------|------|------|
| Project/Task | PT | Time | PV | Plan Date | Date | %C | %S | EV |
| Move-Add Buttons Move-Add Buttons | 23:10 | 19:39 | 4.8% | Apr 9, 2006 | | 94% | 85% | 4.5% |
| ► 🗂 HLD Task | 0:22 | 0:32 | 0.1% | Mar 19, 2006 | Mar 17, 2006 | 100% | 143% | 0.1% |
| ► 🗂 HLD Inspect Task | 0:07 | 0:15 | 0% | Mar 26, 2006 | Mar 22, 2006 | 100% | 208% | 0% |
| γ ☐ PSP | 18:00 | 14:45 | | Apr 9, 2006 | Apr 5, 2006 | 100% | 82% | 3.7% |
| Planning | 0:47 | 1:14 | 0.2% | Mar 19, 2006 | Mar 17, 2006 | 100% | 156% | 0.2% |
| - Design | 5:00 | 2:18 | 1% | Mar 26, 2006 | Mar 20, 2006 | 100% | 46% | 1% |
| ─ ☐ Design Review | 1:23 | 0:13 | 0.3% | Mar 26, 2006 | Mar 20, 2006 | 100% | 16% | 0.3% |
| Code | 4:16 | 2:39 | 0.9% | Mar 26, 2006 | Mar 21, 2006 | 100% | 62% | 0.9% |
| - Code Review | 1:31 | 0:03 | 0.3% | Mar 26, 2006 | Mar 21, 2006 | 100% | 3% | 0.3% |
| Compile | 0:17 | 1:29 | 0.1% | Mar 26, 2006 | Mar 22, 2006 | 100% | 516% | 0.1% |
| ─ Test | 3:58 | 5:15 | 0.8% | Mar 26, 2006 | Mar 23, 2006 | 100% | 132% | 0.8% |
| Postmortem | 0:47 | 1:34 | 0.2% | Apr 9, 2006 | Apr 5, 2006 | 100% | 198% | 0.2% |
| | 0:06 | 0:01 | 0% | Mar 26, 2006 | Mar 20, 2006 | 100% | 15% | 0% |
| | 0:56 | 0:21 | 0.2% | Mar 26, 2006 | Mar 22, 2006 | 100% | 37% | 0.2% |
| ← 🗂 Test Devel Task | 0:19 | 0:05 | 0.1% | Mar 26, 2006 | Mar 20, 2006 | 100% | 27% | 0.1% |
| ← 🗂 Code Inspect Task | 1:52 | 3:40 | 0.4% | Apr 9, 2006 | Apr 4, 2006 | 100% | 197% | 0.4% |
| ⊶ 🔚 Int Test Task | 1:28 | 0:00 | 0.3% | Apr 9, 2006 | | | | |
| | | | | | | | | |





Team Dashboard – EV Chart







What is a TSP Launch?

| Meeting 1 | Review Management goals. |
|-----------|--------------------------|
|-----------|--------------------------|

Tools used for these steps

Meeting 2 Set S/W Team goals.

Meeting 3 Produce development strategy and process.

Meeting 4 Produce top-down plan.

Meeting 5 Review quality plan.

Meeting 6 Produce bottom-up plan (detailed individual plans).

Meeting 7 Perform risk assessment.



TSP Launches – TSP Workbook

• Strengths

- Top-down plan is easy to enter real-time
- Quality Plan is generated automatically
- Non-software development efforts are supported
- User tool training is reduced (COTS-based)

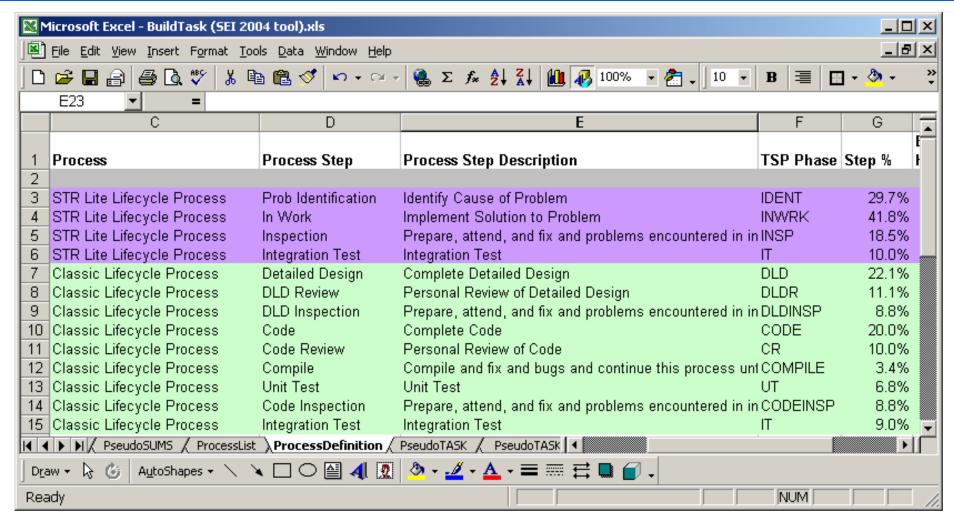
Weaknesses

- Balancing workloads is time-consuming (at times)
- Implementing personal rates is error-prone
- Producing bottom-up plan requires all team members to use tool





TSP Workbook – Lifecycle Processes¹

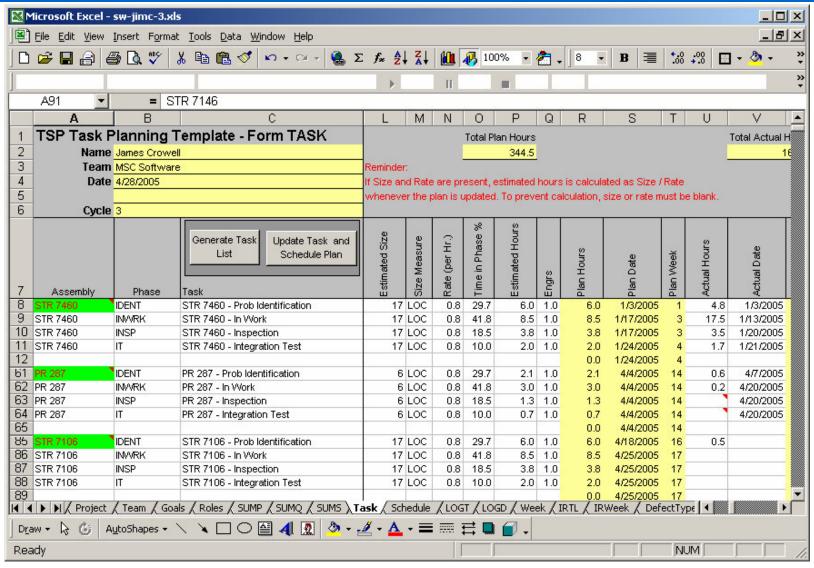


1 - Launch Assistant tool provided by Advanced information Services (AIS)





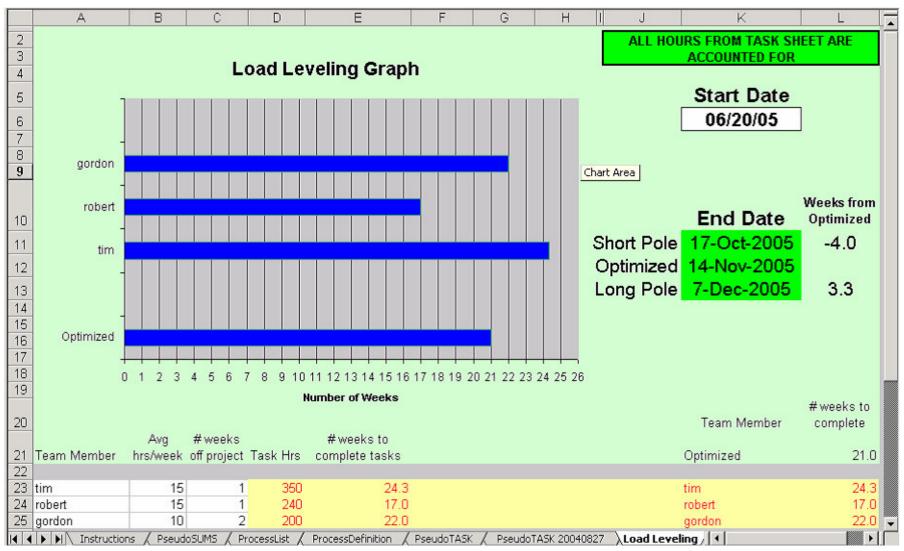
TSP Workbook – Non-S/W Task List







TSP Workbook – Load Leveling







TSP Workbook – Load Leveling

| mplate - Form TASK 👤 💂 | • | - | - | - | Tota 🗸 | an Hou 🗸 | | | |
|---|------------------|-------------|----------|--------|--------------|-------------|---------------|-------|---|
| Oraft a Design Standard for the team | aa | | | | | 5.0 | | 5.0 | 23/2004 2 |
| Feam Review and comment on standard | team | | | | | 2.0 | 3.0 | 6.0 | 872 |
| mprove standard based on comments | aa | | | | | 2.0 | 1.0 | 2.0 | 8/23/200 |
| ssue the standard to the team | aa | | | | | 0.5 | -1.0 | 0.5 | 8/7 |
| Core Requirements REQINSP - inspection | aa, cc | 55 p | gs | 2.0 | 1 | 27.5 | 3.0 | 82.5 | ⁹ Click on the "P" (Plan Hours) |
| Core Requirements REQINSP - meeting | bb, aa, cc | | | | | 1.0 | · | 0.0 | Click on the "P" (Plan Hours) Column, and the entire column |
| 'A" Requirements REQ - write requirements | aa | 45 p | gs | 0.5 | | 90.0 | 1.0 | 90.0 | will be selected. |
| A" Requirements REQINSP - meeting | aa, bb, dd | | | | 28.00m | 1.0 | | 0.0 | will be selected. |
| A" Requirements REQINSP - resolve issue | aa | | | | | 5.0 | 1.0 | 5.0 | 1 <u>d</u> |
| Core SW DLDINSP - Inspection | aa, bb | 500 L | .00 | 200.0 | 2000 | 2.5 | 3.0 | 7.5 | 11/8/2004 13 |
| Core SW DLDINSP - Inspection Meeting | cc, aa, bb | | | | | 1.0 | 3.0 | 3.0 | 11/8/2004 13 |
| Core SW CODEINSP - Inspection | aa, bb | 500 L | .00 | 200.0 | The state of | 2.5 | 3.0 | 7.5 | 11/2- |
| Core SW CODEINSP- Inspection Meeting | cc, aa, bb | | | | | 1.0 | 3.0 | 3.0 | 1 EVCEL will display the "CLIM" |
| 'A" SW DLD | aa | 1000 L | .00 | 15.0 | 30.0 | 20.0 | 1.0 | 20.0 | EXCEL will display the "SUM", |
| 'A" SW DLDR | аа | 1000 L | .00 | 15.0 | 15.0 | 10.0 | 1.0 | 10.0 | the total effort hours, planned for |
| 'A" SW DLDINSP - Inspection Meeting | aa, bb, cc | | | | | 1.0 | 3.0 | 3.0 | 11/ aa. |
| A" SW DLDINSP - Resolve Issues | aa | | | | 14. | 2.0 | 1.0 | 2.0 | 11) |
| 'A" SW CODE | aa | 1000 L | .00 | 15.0 | 30.0 | 20.0 | 1.0 | 20.0 | 11/15/2 |
| 'A" SW CR | aa | 1000 L | .00 | 15.0 | 10.0 | 6.7 | 1.0 | 6.7 | 11/15/2004 |
| A" SW CODEINSP- Inspection Meeting | aa, bb, cc | | | | | 1.0 | 3.0 | 3.0 | 12/6/2004 |
| A" SW CODEINSP - Resolve Issues | aa | | | | 1 | 2.0 | 1.0 | 2.0 | 12/6/2004 |
| 'A" SW COMPILE | аа | 1000 L | .00 | 15.0 | 3.0 | 2.0 | 1.0 | 2.0 | 12/6/2004 |
| 'A" SW UT | аа | 1000 L | .00 | 15.0 | 12.0 | 8.0 | 1.0 | 8.0 | 12/6/2004 |
| | | | | | | | 100 | | |
| | | | | | :- | | 2000 | | |
| alGuide / Project / Team / Goals / Roles / SUMP | / //sumo//sur | MS Task / S | Schedule | / LOGT | / LOGE | Z Veek Z IF | I BTL / IE | ?Week | ectTypes / QPro arm / |
| | | | | | | | | | |





TSP Launches — Team Dashboard

• Strengths

- Top-down plan is easy to enter real-time
- Quality Plan is generated automatically
- Non-software development efforts are supported
- Balancing team workloads is quick & easy
- Tool familiarity is not required

Weaknesses

Some tool workarounds require explanation





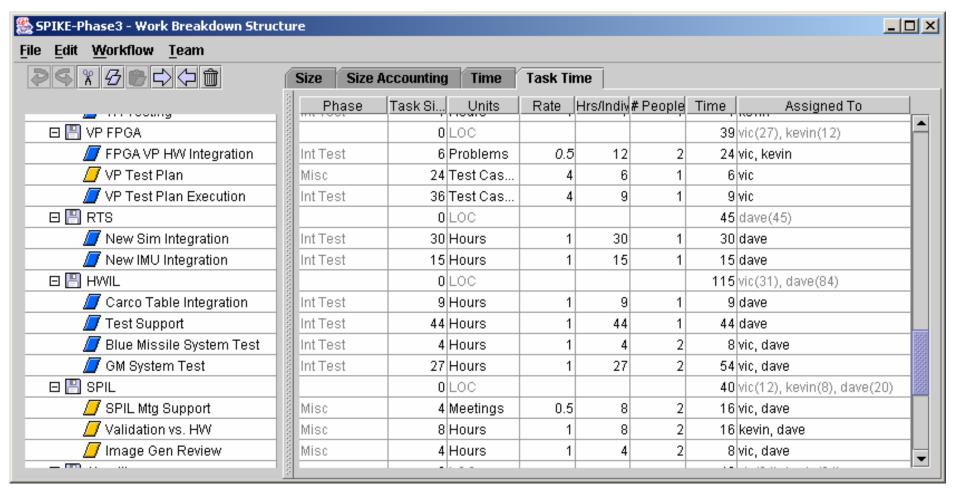
Team Dashboard – Non-S/W Workflow

| ★ Team Project - Common Team Workflows | | | | _ 🗆 X |
|--|-------------|------|-----------------|----------|
| | > | | | |
| Name | % | Rate | Units | # People |
| Common Workflows | | | | |
| 🗇 🎛 Crisis Management | | | | |
| Planning | 5% of | 3 | Crises per Hour | 1 person |
| <u>/</u> Stop | 10% of | 3 | Crises per Hour | 1 person |
| | 10% of | 3 | Crises per Hour | 1 person |
| | 40% of | 3 | Crises per Hour | 1 person |
| Postmortem | 35% of | 3 | Crises per Hour | 1 person |
| | | | | |





Team Dashboard – Non-S/W Task List







Daily Use – TSP Workbook

• Strengths

- Logging time and defects is easy
- Changing order of tasks is easy
- User ramp-up time is short (COTS-based)

Weaknesses

- Additional steps required to build team status
- No support for PROBE analysis





TSP Workbook – Time and Defect Logs

| | | | g - F | orm LOGT | | | | | | |
|--|--|---|------------------------------------|--|---|---|---|---|------------------------------------|--|
| | Robert N Lir | deman | | | | Date | 5/3/2006 | | _ | |
| Team | MSS Team | | | | | | | | _ | |
| | | | | | | Cycle | | | _ | |
| | | | | | | Hours | 91.6 | | | |
| 0 | Phase | | | Task | Date | Start | Int. | Otau. | Detta | Comments |
| Assembly UPC AMU RS A | | DC AMILI | PS Acc | ess DB Create - Data Entry | 8/6/20 | | | Stop 11:40:26 | | O PB done |
| UPC AMU RS A | | | | ess DB Create - Data Entry | 8/6/20 | | | 12:00:40 | | 1 Net done |
| JPC AMU RS A | | | | ess DB Create - Data Entry | 8/6/20 | | | 12:06:40 | | 2 delete all traces of pilot data file |
| JPC AMU RS A | | | | ess DB Create - Data Entry | 8/6/20 | | | 12:34:11 | | 7 corrected and remove inapplicable personalities |
| JPC AMU RS A | | | | ess DB Createe - Data Entry | 8/6/20 | | | 12:39:21 | | 2 done reveiw of the OC1.2 changes |
| JPC AMURS A | | | | ess DB Createe - Data Entry | 8/6/20 | | | 12:45:38 | | O done |
| JPC AMURS A | | | | ess DB Create - Data Entry In | 8/6/20 | | | 13:09:46 | | 8 sent out request to review |
| UPC AMURS A | | | | ess DB Create - DLD Inspecti | | | | 10:52:55 | | |
| JPC AMURS A | | | | ess DB Create - DLD Review | | | | 11:17:56 | | will have review sessions for construction an |
| | _ | _ | | ording Log - Form L | | | 0.0 | | | o minima o romon occolono for contat action ang |
| 5, 0, 1,110, 1,0,1 | USF L | JEIECI | | | | | | | | |
| JPC AMURS A | CON | | | | JUBU | | | | | |
| JPC AMU RS A | COI Nam | e Rober | t N Lir | | .OGD | | 5/3/2006 | | | |
| JPC AMURS A JPC AMURS A | COI Nam | | t N Lir | | .000 | | 5/3/2006 | | | |
| UPC AMU RS A UPC AMU RS A UPC AMU RS [| COI Nam DLE Tear | e Rober | t N Lir | | .000 | | 5/3/2006 | | | |
| UPC AMU RS A UPC AMU RS A UPC AMU RS D UPC AMU RS D | COI Nam DLC Tear | e Rober | t N Lir | | .000 | Date | 5/3/2006 | | | |
| JPC AMU RS A JPC AMU RS A JPC AMU RS D JPC AMU RS D | COI Nam DLC Tear | e Rober | t N Lir | | .000 | Date | 5/3/2006 | Fix | Fix | |
| JPC AMU RS A JPC AMU RS A JPC AMU RS [JPC AMU RS [| COI Nam DLC Tear | e Rober n MSS T | t N Lir | | .000 | Date | 5/3/2006 Removed | Fix Time | Fix Ref. | Description |
| JPC AMU RS A JPC AMU RS A JPC AMU RS [JPC AMU RS [| COT Nam DLC Tear COT | Rober n MSS T | t N Lir eam Type | ndeman | | Date Cycle | | | Ref. | Description ve interp layer to same level as rule server |
| JPC AMU RS A JPC AMU RS A JPC AMU RS [JPC AMU RS [| COT Nam DLC Tear COT COT Date | Rober MSS T Num 4 9 | t N Lir eam Type 10 | ndeman Assembly | CS CS | Cycle Injected | Removed | Time | Ref. mo | · · · · · · · · · · · · · · · · · · · |
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Daily Use — Team Dashboard

• Strengths

- Logging time and defects is easy
- Team status is built automatically
- PROBE analysis is fully supported

Weaknesses

- Tasks must be manually reordered to support TSP
- Changing order of tasks is awkward (at times)
- Full training of tool requires time
- Training materials are still in development





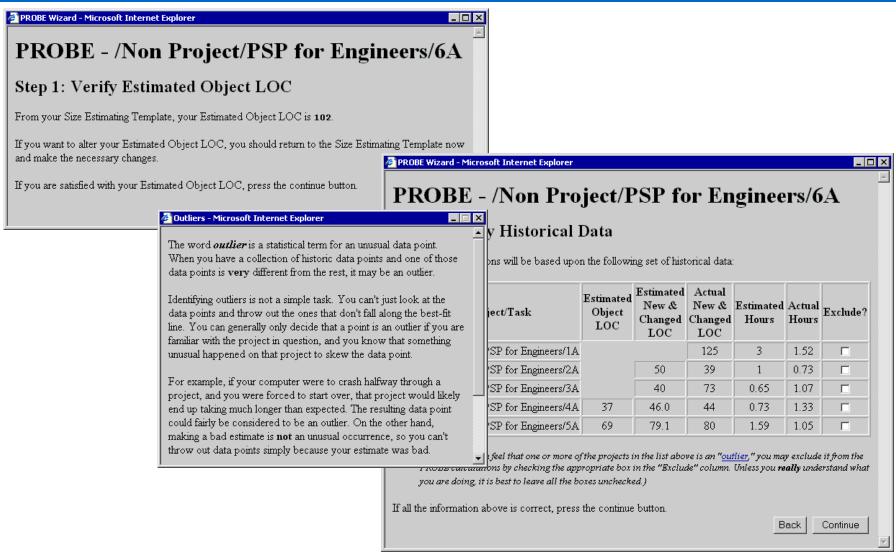
Team Dashboard – Task List

| Task and Schedule | | | |
|---|-------------------|---------------------|----|
| Project/Task | PT Tim | e PV Plan Date | E |
| ↑ /Project/H5.0 AV-8B UPC/Dev/VMF/CAS Screen/Move-Add Buttons/HLD Task/HLD | 0:22 0:0 | 0.1% Mar 19, 2006 | |
| 🌅 /Project/H5.0 AV-8B UPC/Dev/VMF/CAS Screen/Move-Add Buttons/HLD Inspect Task/HLD Inspect | 0:07 0:0 | 0% Mar 19, 2006 | |
| 🌅 /Project/H5.0 AV-8B UPC/Dev/VMF/CAS Screen/Move-Add Buttons/PSP/Planning | 0:18 0:0 | 0 0.1% Mar 19, 2006 | |
| 🌅 /Project/H5.0 AV-8B UPC/Dev/VMF/CAS Screen/Move-Add Buttons/PSP/Design | 1:53 0:0 | 0 0.4% Mar 19, 2006 | |
| ↑ /Project/H5.0 AV-8B UPC/Dev[vMF/CAS Screen/Move-Add Buttons/PSP/Design Review | 0:31 0:0 | 0 0.1% Mar 19, 2006 | |
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| ↑ /Project/H5.0 AV-8B UP | 0:34 0:0 | 0 0.1% Mar 19, 2006 | |
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| 7 /Project/H5.0 AV-8B UPC/Dev/V / /CAL Screen/Move-Add Buttons/Int Test Task/Int Test | 1:28 0:0 | 0 0.3% Mar 26, 2006 | |
| | | 1 | |
| Add Task Remove Task Move Task Up Move | Task <u>D</u> own | ✓ Flat Vie | ₩. |

Note that bottom tasks are not in the proper sequential order for TSP development

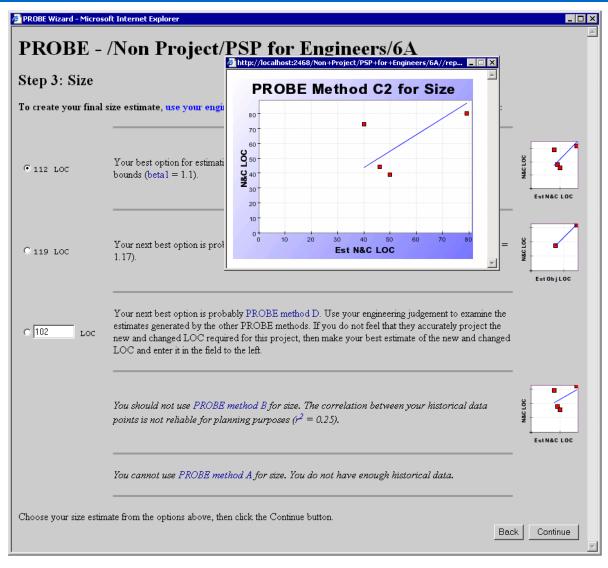






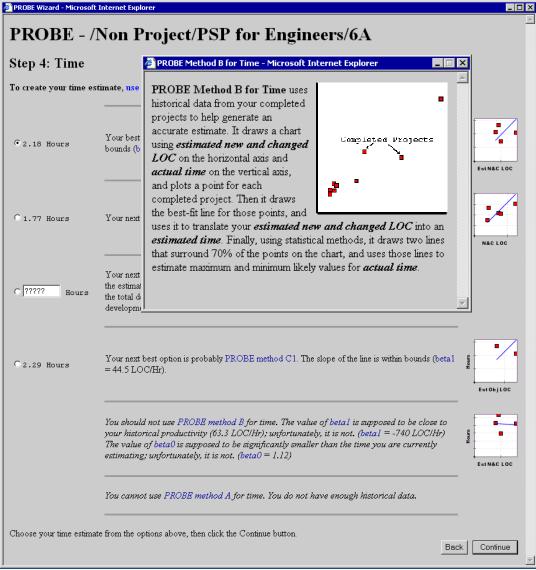






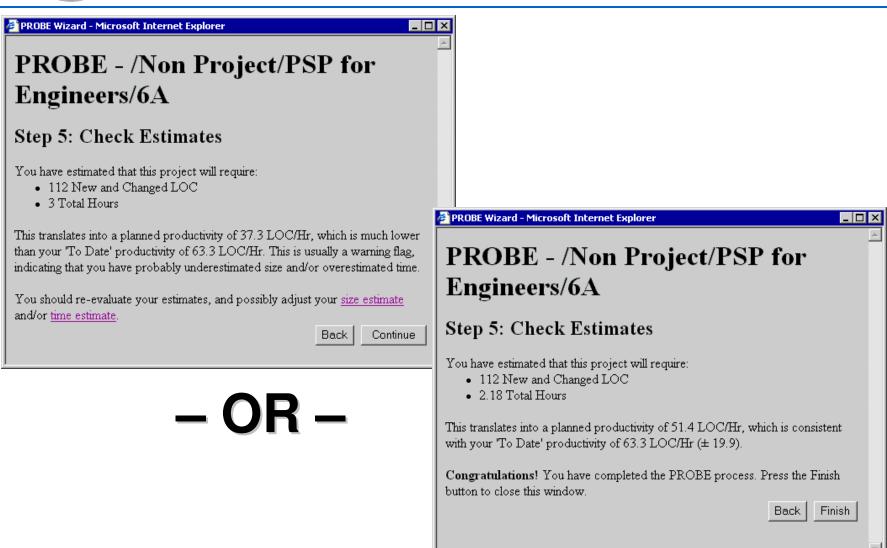
















Postmortems – TSP Workbook

- Strengths
 - Compiles team defect log automatically
 - Easy to generate charts from data
- Weaknesses
 - None





Postmortems — Team Dashboard

• Strengths

- Compiles team defect log automatically
- Data analysis charts provided within tool
- Easy to export data to Excel (easy to generate charts from data)
- Weaknesses
 - None





Summary Conclusions

- TSP Workbook and Team Dashboard
 - are successful implementations of fundamental PSP/TSP concepts
 - are neither "Silver Bullets" nor perfect implementations of all PSP/TSP concepts
 - can be used to execute a TSP project
- Expect to work with your PSP/TSP tool to determine how your team will use it





Contact Information

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Note: These slides are not on the SSTC 2006 CD. Please email me if you wish additional information.





Abbreviations

- COTS Commercial Off The Shelf
- NAVAIR Naval Air Systems Command
- NSSC NAVAIR Systems Software Support Center
- PROBE PROxy Based Estimating
- PSP Personal Software Process
- SEI Software Engineering Institute
- STSC Software Technology Support Center (Air Force)
- TSP Team Software Process

